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منظمة الطيران
المدني الدولي

国际民用
航空组织

Ref. : T 8/10.21:AP005/12(CNS)

16 January 2012

Subject: Automatic Dependent Surveillance –
Broadcast (ADS-B) Seminar and the Eleventh Meeting of
ADS-B Study and Implementation Task Force (ADS-B SITF/11)
(Jeju, Republic of Korea, 24 – 27 April 2012)

Action Required: Reply at your earliest convenience,
Preferably, **before 5 April 2012**

Sir/Madam,

I have the honour to invite your Administration to the ADS-B Seminar and the Eleventh Meeting of the ADS-B Study and Implementation Task Force to be held at Hotel Lotte, Jiju, Republic of Korea, from 24 to 27 April 2012. The Seminar and the Meeting will be hosted by the Office of Civil Aviation, Ministry of Land, Transport and Maritime Affairs (MLTM) and the Incheon International Airport Corporation (IIAC).

The objective of the meeting is to continue the work of the Task Force. The meeting will discuss issues observed during the implementation of ADS-B and surveillance data sharing between States. The meeting will also review the result of discussions from the Seventh Meeting of South East Asia and Bay of Bengal Working Group (SEA/BOB ADS-B WG/7) held in Chennai from 28 to 30 November 2011. An ADS-B Seminar - information sharing session on ADS-B development will be arranged on 24 April 2012. Updates from airframe and avionics manufactures, operators, regulators and Air Navigation Service Providers are expected.

States are requested to nominate suitably qualified participant(s) with operational and technical background to participate the meeting and to exchange information.

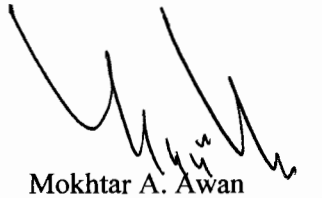
Provisional Agenda of the meeting is provided in Attachment 1. The Seminar Programme is being developed and will be provided to the Seminar. The Meeting Bulletin containing information on hotel accommodation, venue of the meeting and other useful information of interest to participant(s) is provided in Attachment 2.

If the nominated participant(s) wish to make a presentation(s) and/or present paper(s) at the Meeting, these should be submitted in MS Word or Power Point format to the Secretariat as soon as possible, preferably, **before 10 April 2011**.

...2/

I shall be grateful if you would kindly confirm participation from your Administration, by returning the completed a Registration Form in Attachment 3 to this Office, preferable not later than **5 April 2012.**

Accept, Sir/Madam, the assurances of my highest consideration.



Mokhtar A. Awan
Regional Director

Enclosures:

- Attachment 1: Provisional Agenda
- Attachment 2: Meeting Bulletin
- Attachment 3: Registration Form

International Civil Aviation Organization



**AUTOMATIC DEPENDENT SURVEILLANCE –
BROADCAST SEMINAR AND ELEVENTH MEETING
OF AUTOMATIC DEPENDENT SURVEILLANCE –
BROADCAST (ADS-B) STUDY AND
IMPLEMENTATION TASK FORCE (ADS-B SITF/11)**



Jeju, Republic of Korea, 24-27 April 2012

PROVISIONAL AGENDA

24 April 2012

Opening Session and ADS-B Seminar - Information sharing on ADS-B development and Implementation (Updates from Industry – Airframe and avionics manufactures, operators, regulators and ANSPs are expected).

25-27 April 2012

- Agenda Item 1: Adoption of agenda
- Agenda Item 2: Review the outcome of the APANPIRG/22 on ADS-B SITF/10 and SEA/BOB ADS-B WG/7 Meetings
- Agenda Item 3: Review progress made by ADS-B related ICAO panels
- Agenda Item 4: Review the Terms of Reference and **Subject/Tasks List as attached to this provisional agenda below**
- Agenda Item 5: Report and updates by the leading member of the Task Force on Tasks assigned
- Agenda Item 6: Review States' activities and interregional issues on trials and implementation of ADS-B and multilateralism
- Agenda Item 7: Development of Asia/Pacific Regional ADS-B implementation plan and sub-regional ADS-B implementation plan
- Divide into working groups as follows and subsequently report conclusions to Plenary
- *Regulatory authorities working group;*
 - *South East Asia working group*
 - *Bay of Bengal and South Asia working group;*
 - *Pacific working group*
- Agenda Item 8: Any other business
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UPDATED ADS-B SUBJECT/TASKS LIST

| Serial No. | His No. | Subject/Tasks List | Associated with Strategic Objective | Associated GPI | Deliverables | Target Date | Status and Action to be taken and led by |
|-------------------|----------------|--|--|-------------------------------|---|--------------------|---|
| 1 | 3 | Each member State report on the number of airframes fitted and transmitting with good NUC/NIC. | D. Efficiency | GPI01/05/06/09/14/16/17/21/22 | Report on statistics conducted | 4/2011 | Closed |
| 2 | 14 | Guidance material on how to build safety case for delivery of separation services. | A.Safety | GPI01/05/06/09/14/16/17/21/22 | Guidance material for implementation | Apr-11 | Completed |
| 3 | 17 | Guidance on legal liability issues for ADS-B data sharing. | A.Safety | GPI01/05/06/09/14/16/17/21/22 | Guidance material for implementation | Aug-12 | U.S.A. |
| 4 | 18 | Develop and implement regional collaboration project for ADS-B Out operational use including data sharing in SEA and report on implementation progress. | D. Efficiency | GPI01/05/06/09/14/16/17/21/22 | Sub-regional ADS-B collaboration project has been developed. | Jul-08/ Apr-11 | SEA WG - On going |
| 5 | 19 | Develop and implement regional collaboration project for ADS-B out operational use including data sharing in South Pacific and report on implementation progress. | D. Efficiency | GPI01/05/06/09/14/16/17/21/22 | Develop and implement sub-regional ADS-B collaboration project. | Apr-09/ Dec-11 | South Pacific States On-going |
| 6 | 21 | Study application of ADS-B and multilat for precision runway monitoring. | D. Efficiency | GPI01/05/06/09/14/16/17/21/22 | Guidance material for implementation | Apr-11 | All Members On-going |
| 7 | 22 | Perform data collection and data analysis of ADS-B messages to examine GPS performance in different geographic areas. | D. Efficiency | GPI01/05/06/09/14/16/17/21/22 | Report of data collected and analyzed - continuous | Apr-11 | All Members On-going |
| 8 | 23 | Develop and implement regional collaboration project for ADS-B out operational use including data sharing in Bay of Bengal area and report on implementation progress. | D. Efficiency | GPI01/05/06/09/14/16/17/21/22 | Develop and implement sub-regional ADS-B collaboration project. | Apr-09/ Dec-11 | Bay of Bengal States |
| 9 | 25 | Provide feedback to the proposed amendment and template for data sharing based on experience gained by Indonesia and Singapore. | D. Efficiency | GPI01/05/06/09/14/16/17/21/22 | Comments | April-2011 | Completed |

APANPIRG/22
Appendix I to the Report on Agenda Item 3.4

| Serial No. | His No. | Subject/Tasks List | Associated with Strategic Objective | Associated GPI | Deliverables | Target Date | Status and Action to be taken and led by |
|------------|---------|---|-------------------------------------|-------------------------------|---|-------------|--|
| 10 | 26 | Prepare a paper on the experience of using the ADS-B data sharing template and make any recommendations for change of the data sharing template. | D. Efficiency | GPI01/05/06/09/14/16/17/21/22 | Comments | April-2011 | Completed Singapore & Indonesia |
| 11 | 27 | Clarify relation between DO260B and 3NM separation in TMA. | D. Efficiency | GPI01/05/06/09/14/16/17/21/22 | Prepare a WP | April-2011 | Completed |
| 12 | 28 | Renaming SEA ADS/B WG and relation between WG and TF. | D. Efficiency | GPI01/05/06/09/14/16/17/21/22 | Comments | April-2011 | All Members Completed |
| 13 | 29 | Review the forward fit requirement for SA Aware compliance by June 2012. | D. Efficiency | GPI01/05/06/09/14/16/17/21/22 | To develop a strategy to resolve this issue | April-2011 | IATA & Australia |
| 14 | 30 | To exam existing air-ground communication and surveillance capability in the boarder area between China and Myanmar and identify the need and possibility for sharing ADS-B data from potential ADS-B ground station at Lashio. | D. Efficiency | GPI01/05/06/09/14/16/17/21/22 | Report status and position | April-2011 | China & Myanmar On-going |
| 15 | 31 | To exam possibility of sharing ADS-B data from potential ADS-B ground station from Coo Co and Pathein. | D. Efficiency | GPI01/05/06/09/14/16/17/21/22 | Report status and possibility | April-2011 | Myanmar & India |
| 16 | 32 | ATS operational letter of agreements between neighboring FIRs among South China Sea States for radar-like surveillance service | D. Efficiency | GPI01/05/06/09/14/16/17/21/22 | Report progress | April-12 | China, Hong Kong China, Viet Nam and Singapore |
| 17 | 33 | Review of FPL Amendment to update AIGD and its effective date. | D. Efficiency | GPI01/05/06/09/14/16/17/21/22 | Update the AIGD | April-2012 | Australia and Secretariat |
| 18 | 34 | Identify new data sharing projects in the eastern part of South China Sea. | D. Efficiency | GPI01/05/06/09/14/16/17/21/22 | Prepare a working paper | April-2011 | Singapore |

APANPIRG/22
Appendix I to the Report on Agenda Item 3.4

| Serial No. | His No. | Subject/Tasks List | Associated with Strategic Objective | Associated GPI | Deliverables | Target Date | Status and Action to be taken and led by |
|-------------------|----------------|--|--|-------------------------------|-------------------------|--------------------|---|
| 19 | 35 | Identify new data sharing projects in Bay of Bengal. | D. Efficiency | GPI01/05/06/09/14/16/17/21/22 | Prepare a working paper | April-2011 | Australia On-going |
| 20 | 36 | States to advise when their ground stations can be upgraded to receive ADS-B DO260B compliant ADS-B data. | D. Efficiency | GPI01/05/06/09/14/16/17/21/22 | | April/May12 | All Members |
| 21 | 37 | Guidance material addressig military concerns regarding sharing ADS-B data | A. Safety | GPI01/05/06/09/14/16/17/21/22 | Prepare a working paper | April-12 | Australia |
| 22 | 38 | Bring attention of States concerned to the risk that ADS-B data without integrity (such as NUC=0) should not be used to support procedural control | A. Safety | GPI01/05/06/09/14/16/17/21/22 | Letter to States | October-11 | Regional Office |
| 23 | 39 | Comparing the changes brought by DO260B and identifying any potential impacts on ATC systems. | A. Safety | GPI01/05/06/09/14/16/17/21/22 | Prepare a working paper | April-12 | Hong Kong China & Singapore |

International Civil Aviation Organization



**AUTOMATIC DEPENDENT SURVEILLANCE –
BROADCAST SEMINAR AND ELEVENTH MEETING
OF AUTOMATIC DEPENDENT SURVEILLANCE –
BROADCAST (ADS-B) STUDY AND
IMPLEMENTATION TASK FORCE (ADS-B SITF/11)**



Jeju, Republic of Korea, 24 -27 April 2012

SEMINAR/MEETING BULLETIN

1. Schedule of Seminar/Meeting

1.1 Automatic Dependent Surveillance-Broadcast (ADS-B) Seminar and the Eleventh of ADS-B Study and Implementation Task Force of APANPIRG (ADS-B SITF/11) will be held at the Hotel Lotte, located at 35 Jungmun Tourist Road No.72, Seogwipo, Jeju, Republic of Korea, from 24 to 27 April 2012 and the opening ceremony will be held at 09:30 a.m. on Tuesday, 24 April 2012. A one-day Seminar will be held on 24 April 2012, followed by the ADS-B SITF/11 meeting, which will be held from 25 to 27 April 2012 and start at 0900 hrs. everyday.

2. Registration of participants

2.1 Participants are requested to register at the Registration Desk in the front of the Conference Room between 0830 and 0900 hrs. on the first day of the Seminar and the Meeting. Participants are also requested to wear the identification badge provided at the time of registration, while attending all activities during the Seminar and the Meeting.

3. Meeting Documents for Distributions

3.1 Participants wishing to present papers for distribution during the meeting are requested to forward them to the Secretariat of the meeting at following email addresses as early as possible so that they can be posted in the ICAO APAC website in a timely manner.

APAC@icao.int and PLi@icao.int

4. Passport, Visa and Customs

4.1 All foreign nationals entering the Republic of Korea must possess valid passports and visa. However participants from certain countries are not required to obtain visas for a temporary visit. Participants may wish to obtain information on entry requirements by access in the web page <http://www.mofat.go.kr/ENG/main/index.jsp> (Ministry of Foreign Affairs and Trade).

4.2 The following items can be brought in duty free:

- a) Personal effects such as clothing etc. (Under USD 400);
- b) 200 pieces of cigarette;
- c) 1 bottle (Less than 1 litre and valued at under USD 400) alcoholic liquors;
- d) 2 ounces of perfume for personal use

For more information, please visit the following links.

Immigration Bureau : <http://www.moj.go.kr/HP/ENG/index.do>

4.3 There are no restrictions on the import of foreign currency. However, when entering Korea, you shall declare to customs if the amounts you are carrying exceed US \$ 10,000 and when leaving Korea, you also need to declare to customs if the amounts, exceed US \$ 10,000. (Current exchange rate: US\$ 1=KRW 1,150.00).

5. Hotel Reservations and Transportation

5.1 Information regarding recommended hotels is given in Annex 1. Due to peak tourist season, participants should arrange their own hotel accommodations well in advance. In case assistance is required participants may wish to contact the designated contact persons whose details are provided in para 6 below.

5.2 Participants are required to make their own arrangement for transportation from/to airport to hotel and to/from the venue of the meeting. Participants are also requested to ask for a map to the venue of the meeting when they check in the hotel. Participants staying at some of the recommended hotels given in Annex 1 may go to the venue of the meeting on foot because the hotels are located within the 10 min walking distance. Transportation arrangements for the other activities will be announced during the Meeting.

➤ **By Bus**

- Airport Limousine Bus #600
Jeju International Airport → Hotel Lotte
(Interval : 15~17 Mins, Hours : 6:20~21:50, Duration : 50 Mins, Fare : KRW 3,900)

- ※ Web page 1 : http://jeju.airport.co.kr/doc/jeju_eng/info/RE03010101.jsp
- ※ Web page 2 : <http://www.lottehoteljeju.com/en/index.asp?lang=English>

Hotel Lotte → Jeju International Airport
(Interval : 15~17 Mins, Hours : 6:40~21:50, Duration : 50 Mins, Fare : KRW 3,900)

※ Payment to be made upon disembarkment

➤ By Taxi

Jeju International Airport → Hotel Lotte
(Duration : 50 Mins, Fare : KRW 30,000 ~ 40,000)

※ Web page : http://jeju.airport.co.kr/doc/jeju_eng/info/RE03010101.jsp

6. Contact Points

6.1 Correspondence pertinent to travel arrangement such as information of participants' arrival details, visa, request for accommodation at hotels other than the recommended hotel and other relevant matters should be directed to Mr. Ki Hyoun Kim of Korea Civil Aviation Office.

You may wish to contact;

| | |
|--|---|
| Mr. Ki Hyoun Kim | Tel : +82 (2) 2669 6414 |
| Assistant Director, Air Navigation Facilities Division | Fax : +82 (2) 6342 7299 |
| Korea Civil Aviation Office | E-mail : kimhwalove@korea.kr |
| 1-8, Byeoryang-dong, Gwacheon-si, | |
| Gyeonggi-do, 427-040, | |

| | |
|--|---|
| Mr. Yong Gil Lee | Tel : +82 (32)741 5624 |
| Senior Manager, NAVAIDS Group | Fax : +82 (32)741 2700 |
| Incheon International Airports Corporation | E-mail : wind99@airport.kr |
| 424-47 Gonghang-gil, Jung-gu, Incheon | |
| 400-700, Republic of Korea | |

7. Currency Exchange

7.1 The basic unit of the Korean monetary system is the won (W). Coin denominations are 10, 50, 100 and 500. Foreign bank notes and traveler's checks can be converted into Korean won at most banks, hotels, and airports. International credit cards such as Visa, MasterCard, American Express are widely accepted at major hotels, department stores, shopping malls and restaurants in the larger cities. You may be required to show your passport.

7.2 All commercial banks exchange major foreign currencies during office hours from 0930 to 1600 hrs. from Monday to Friday. All major hotels also have foreign exchange counters.

8. Public Transportation

8.1 Taxis are plentiful, clean, safe and inexpensive in Korea. There are taxi stands in most of the city areas, and taxis can also be hailed on the streets and at taxi stands. All taxies are equipped with a fare meter. Minimum fare is 2,200 Won. Most taxi drivers do not speak English, so it is advisable to tell him or her names of different landmarks (ex. major hotels or attractions) near your destination. Vacant taxis have red indicator lamps in front of the front passenger seat and on the roof.


9. Other Useful Information

9.1 Time in Seoul is 9 hours ahead of Coordinated Universal Time (UTC). There is no daylight saving time.

9.2 The electrical outlet in Korea is 220 volts (AC 60Hz). Always check the power supply before using your equipment.


9.3. Temperatures for Jeju at the end of April are about 18° C during the daytime and 9° C or lower at night.

9.4. The additional information about Jeju can be obtained by access in the web site <http://english.tour2jeju.net/main/index.php> .

LIST OF RECOMMENDED HOTELS**1. HOTEL LOTTE (*****)**


| Room Type | Bed Type | Room Rate |
|---|----------|-------------|
| Superior Hala | Double | KRW 180,000 |
| Superior Hala | Twin | KRW 180,000 |
| Superior Lake | Double | KRW 200,000 |
| Superior Lake | Twin | KRW 200,000 |
| * Service Charge (10%) and tax (10%) are not included | | |


| | |
|--------------|--|
| Breakfast | Not included (Breakfast : KRW 24,000 per person) * Service Charge (10%) and tax (10%) are not included |
| Contact Info | Ms. Hyeo Jin Kim E-mail: hj365@hotellotte.co.kr Ad: #35 JungMun Tourist Road No.72, Seogwipo, Jeju Zip Code: 697-808 Tel: +82-2-759-7050~7 Fax: Fax : +82-2-774-7920 Website : http://www.lottehoteljeju.com/en/index.asp?lang=English |
| Remarks | <ul style="list-style-type: none"> ✓ Venue of the meeting ✓ Complimentary 2 bottles of water ✓ High-speed wired Internet access(paid service) ✓ Complimentary tea service and functional pillow available upon request ✓ Reservation should be made at least 2 weeks in advance |

2. HOTEL HANA (***)**


| Room Type | Bed Type | Room Rate |
|------------------------------|----------|-------------|
| Standard | Double | KRW 150,000 |
| Standard | Twin | KRW 150,000 |
| * Tax (10%) are not included | | |

| | |
|--------------|--|
| Breakfast | Breakfast is included |
| Contact Info | Mr. Young Man Heo E-mail: hotelhana@hotmail.com Ad: #135 JungMun Tourist Road No.72, Seogwipo, Jeju ZipCode: 697-808 Tel: 82-64-738-7001~11 Fax: 82-64-738-7015 Website : http://www.hotelhana.co.kr/html/eng/in_010.asp |
| Remarks | <ul style="list-style-type: none"> ✓ 5 minutes walking distance to the Venue(Hotel Lotte) ✓ High-speed wired Internet access(paid service) ✓ Complimentary 2 bottles of water, Complimentary tea service |

3. HOTEL SUITES (*****)

| | | | |
|---|---|-----------------|------------------|
|  | Room Type | Bed Type | Room Rate |
| | Superior | Double | KRW 190,000 |
| | Superior | Twin | KRW 190,000 |
| | | | |
| | * Service Charge (10%) and tax (10%) are included | | |
| Breakfast | Breakfast is included | | |
| Contact Info | Mr. Jung Mi Yang E-mail: helper@suites.co.kr Ad: #149 JungMun Tourist Road No.72, Seogwipo, Jeju ZipCode: 697-808 Tel: 82-64-738-3800 Fax: 82-64-738-8080 Website : http://www.suites.co.kr/index_eng.html | | |
| Remarks | <ul style="list-style-type: none"> ✓ 3 minutes walking distance to the Venue(Hotel Lotte) ✓ Free High-speed internet service ✓ LCD Flat Screen TV | | |

**ADS-B SEMINAR AND
ADS-B SITF/11
Jeju, Republic of Korea, 24 – 27 April 2012**

NOMINATION FORM

DETAILS:

| | |
|-------------------------------------|--|
| Name: | |
| Title/Position: | |
| Administration/Organization: | |
| Telephone: | |
| Facsimile: | |
| E-mail: | |
| Mailing address: | |
| City:/Postcode/IP | |
| State: | |
| Country: | |
| Hotel: | |

ARRIVAL:

DEPARTURE:

| | | | |
|------------------|--|--------------------|--|
| Date of arrival: | | Date of departure: | |
| Time of arrival: | | Time of departure: | |
| Flight number: | | Flight number: | |

* If flight information is not available at the time of nomination, please leave this information blank, and then forward the information to the host when it is available.

REGISTRATION/PRESENTATION (Please mark with X)

[] Attending

[] Presenting working or information papers

PLEASE E-MAIL/FAX COMPLETED FORM:

To: ICAO Regional Office, Bangkok **Fax: +66 (2) 537-8199**
or E-mail: APAC@icao.int or PLi@icao.int

cc: Host – Korea Civil Aviation Office, MLTM, the Republic of Korea
Mr. Ki Hyoun Kim kimhwalove@korea.kr
Tel: +82 (2) 2669 6414 Fax: +82 (2) 6342 7299